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WASHINGTON STATE DEPT OF  
**NATURAL  
RESOURCES**  
WASHINGTON  
GEOLOGICAL SURVEY

## Big Questions in Carbon Sequestration, Geothermal Energy, and Deep Groundwater in the Columbia Basin

You're Invited to a "Big Questions" Workshop hosted by the Washington Geological Survey (WGS) on March 20, 2023. The workshop will be hosted in the beautiful Kittitas Valley at the Central Washington University campus in Ellensburg, Washington. Details and RSVP form will be distributed in early 2023.

As interest in Washington turns toward increasing climate resiliency through clean energy solutions in the Columbia Basin, WGS aims to consider how the unique geology of the Columbia River Basalt Group in the basin lends itself to previously untapped options for geologic carbon sequestration and geothermal energy. This one-day meeting aims to bring together individuals with key experience and expertise to identify important remaining geologic questions about the Columbia Basin.

As part of the discussion, WGS will guide conversations characterizing how linkages between stratigraphy, structural deformation, and geochemistry impact water quality at depth and create a framework for carbon dioxide injection and heat flux. Aspects of that conversation will cover:

- Data gaps, type sections, and extrapolation of existing stratigraphic models
- Representativeness of published reservoir and seal characteristics
- Sources of thermal anomalies and modes of heat flux
- Flow regimes, residence times, and chemical evolution of non-potable groundwater
- Feasibility and risk mitigation measures for large-scale geothermal and carbon sequestration

The product of this workshop will be a co-authored white paper annotated by an outside panel of experts and stakeholders. This paper will serve as one foundation for further communication, publication, and collaborative study.

While this invitation has been provided to you, we welcome additional attendees who are able to provide important context and input. We ask that you provide those recommendations so that we can expand the portfolio of represented voices.

We invite you to join us!

- **The Earth Resource Team at WGS**

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